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FAIRCHILD

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Single-Channel: 6N137M, HCPL2601M, HCPL2611M Dual-Channel: HCPL2630M, HCPL2631M 8-Pin DIP High-Speed 10 MBit/s Logic Gate Optocouplers

Features

- Very High Speed 10 MBit/s
- Superior CMR 10 kV/µs
- Fan-out of 8 Over -40°C to +85°C
- · Logic Gate Output
- Strobable Output
- Wired OR-open Collector
- · Safety and Regulatory Approvals
 - UL1577, 5,000 VAC_{RMS} for 1 Minute
 - DIN EN/IEC60747-5-5

Applications

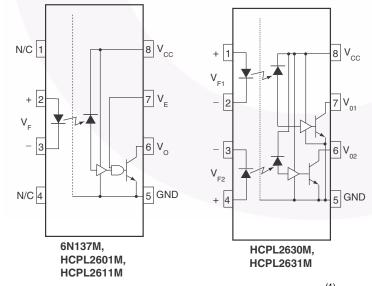
- · Ground Loop Elimination
- LSTTL to TTL, LSTTL or 5 V CMOS
- · Line Receiver, Data Transmission
- · Data Multiplexing
- Switching Power Supplies
- · Pulse Transformer Replacement
- Computer-peripheral Interface

Description

The 6N137M, HCPL2601M, HCPL2611M single-channel and HCPL2630M, HCPL2631M dual-channel optocouplers consist of a 850 nm AlGaAS LED, optically coupled to a very high speed integrated photo-detector logic gate with a strobable output. This output features an open collector, thereby permitting wired OR outputs. The switching parameters are guaranteed over the temperature range of -40°C to +85°C. A maximum input signal of 5 mA will provide a minimum output sink current of 13 mA (fan out of 8).

An internal noise shield provides superior common mode rejection of typically 10 kV/µs. The HCPL2601M and HCPL2631M has a minimum CMR of 5 kV/µs. The HCPL2611M has a minimum CMR of 10 kV/µs.

Schematics



A 0.1 μ F bypass capacitor must be connected between pins 8 and 5⁽¹⁾.

Figure 1. Schematics

Package Outlines

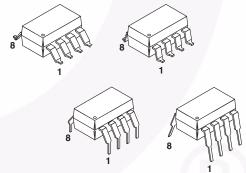


Figure 2. Package Options

Truth Table (Positive Logic)

Tradit Table (Footsto Logic)				
Enable	Output			
Н	L			
Н	Н			
L	Н			
L	Н			
NC	L			
NC	Н			
	Enable H H L L NC			

Safety and Insulation Ratings

As per DIN EN/IEC 60747-5-5, this optocoupler is suitable for "safe electrical insulation" only within the safety limit data. Compliance with the safety ratings shall be ensured by means of protective circuits.

Parameter		Characteristics	
		< 150 V _{RMS}	I–IV
Installation Classifications per DIN VDE 0110/1.89 Table 1, For Rated Mains Voltage		< 300 V _{RMS}	I–IV
		< 450 V _{RMS}	I–III
		< 600 V _{RMS}	I–III
Climatic Classification			40/100/21
Pollution Degree (DIN VDE 0110/1.89)			2
Comparative Tracking Index			175

Symbol	Parameter	Value	Unit
V	Input-to-Output Test Voltage, Method A, $V_{IORM} \times 1.6 = V_{PR}$, Type and Sample Test with $t_m = 10$ s, Partial Discharge < 5 pC	1,335	V _{peak}
V _{PR}	Input-to-Output Test Voltage, Method B, V_{IORM} x 1.875 = V_{PR} , 100% Production Test with t_m = 1 s, Partial Discharge < 5 pC	1,669	V _{peak}
V_{IORM}	Maximum Working Insulation Voltage	890	V_{peak}
V_{IOTM}	Highest Allowable Over-Voltage	6,000	V_{peak}
	External Creepage	≥ 8.0	mm
	External Clearance	≥ 7.4	mm
	External Clearance (for Option TV, 0.4" Lead Spacing)	≥ 10.16	mm
DTI	Distance Through Insulation (Insulation Thickness)	≥ 0.5	mm
T _S	Case Temperature ⁽²⁾	150	°C
I _{S,INPUT}	Input Current ⁽²⁾	200	mA
P _{S,OUTPUT}	Output Power (Duty Factor ≤ 2.7%) ⁽²⁾	300	mW
R _{IO}	Insulation Resistance at T _S , V _{IO} = 500 V ⁽²⁾	> 10 ⁹	Ω

Notes:

- 1. The V_{CC} supply to each optoisolator must be bypassed by a 0.1 μ F capacitor or larger. This can be either a ceramic or solid tantalum capacitor with good high frequency characteristic and should be connected as close as possible to the package V_{CC} and GND pins of each device.
- 2. Safety limit value maximum values allowed in the event of a failure.

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. $T_A = 25$ °C unless otherwise specified.

Symbol	Parameter	Value	Unit		
T _{STG}	Storage Temperature		-40 to +125	°C	
T _{OPR}	Operating Temperature		-40 to +100	°C	
TJ	Junction Temperature		-40 to +125	°C	
T _{SOL}	Lead Solder Temperature		260 for 10 sec	°C	
Symbol	Parameter	Device	Value	Unit	
EMITTER		•			
l (o)(a)	DC/Average Ferward Input Current Per Channel	Single Channel	50	m A	
I _F (avg)	DC/Average Forward Input Current Per Channel Dual Channel		30	mA	
V _E	Enable Input Voltage Not to Exceed V _{CC} by more than 500 mV Single Cha		5.5	V	
V_{R}	Reverse Input Voltage Per Channel	All	5.0	V	
D	Input Pawar Dissinction Per Channel	Single Channel	100	mW	
P _I	Input Power Dissipation Per Channel	Dual Channel	45	IIIVV	
DETECTOR					
V _{CC}	Supply Voltage	All	-0.5 to 7.0	V	
I _O (avg)	Average Output Current Per Channel	All	25		
I _O (pk)	Peak Output Current Per Channel All		50	mA	
Vo	Output Voltage Per Channel	All	-0.5 to 7.0	V	
D .	Output Power Discipation Per Channel	Single Channel	85	mW	
P _O	Output Power Dissipation Per Channel Dual C		60	IIIVV	

Recommended Operating Conditions

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

Symbol	Parameter	Min.	Max.	Unit
V _{CC}	Supply Voltage	4.5	5.5	V
I _{FL}	Input Current, Low Level	0	250	μA
I _{FH}	Input Current, High Level	6.3 ⁽³⁾	20.0	mA
V _{EL}	Enable Voltage, Low Level	0	0.8	V
V _{EH}	Enable Voltage, High Level	2.0	V _{CC}	V
T _A	Ambient Operating Temperature	-40	+85	°C
N	Fan Out (TTL load)		8	

Note:

3. 6.3 mA is a guard banded value which allows for at least 20% CTR degradation. Initial input current threshold value is 5.0 mA or less.

Individual Component Characteristics ($V_{CC} = 5.5 \text{ V}$, $T_A = 0^{\circ}\text{C}$ to 70°C unless otherwise specified)

Symbol	Parameter	Device	Test Conditions	Min.	Тур.	Max.	Unit
EMITTER							
V _F	Input Forward Voltage	All	$I_F = 10 \text{ mA}, T_A = 25^{\circ}\text{C}$		1.45	1.70	V
٧F	iliput Forward voltage	All	I _F = 10 mA			1.80	"
B _{VR}	Input Reverse Breakdown Voltage	All	Ι _R = 10 μΑ	5.0			V
C _{IN}	Input Capacitance	All	$V_F = 0, f = 1 \text{ MHz}$		60		pF
$\Delta V_F / \Delta T_A$	Temperature Coefficient of Forward Voltage	All	I _F = 10 mA		-1.4		mV/°C
DETECTO	R						
1	La ria Lava Caranta Caranta	Single Channel	$I_F = 10 \text{ mA}, V_O = \text{Open},$ $V_E = 0.5 \text{ V}$		8	13	mΛ
ICCL	Logic Low Supply Current	Dual Channel	$I_{F1} = I_{F2} = 10 \text{ mA},$ $V_O = \text{Open}$		14	21	21 mA
I _{CCH}	Logic High Supply Current	Single Channel	$I_F = 0$ mA, $V_O = Open$, $V_E = 0.5$ V		6	10	mA
	27	Dual Channel	$I_F = 0 \text{ mA}, V_O = \text{Open},$		10	15	
I _{EL}	Low Level Enable Current	Single Channel	V _E = 0.5 V		-0.7	-1.6	mA
I _{EH}	High Level Enable Current	Single Channel	V _E = 2.0 V		-0.5	-1.6	mA
V _{EL}	Low Level Enable Voltage	Single Channel	$I_F = 10 \text{ mA}^{(4)}$			0.8	V
V _{EH}	High Level Enable Voltage	Single Channel	I _F = 10 mA	2.0			V

Note:

4. Enable Input – No pull up resistor required as the device has an internal pull up resistor.

Transfer Characteristics ($V_{CC} = 5.5 \text{ V}$, $T_A = -40 ^{\circ}\text{C}$ to $+85 ^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Device	Test Conditions	Min.	Тур.	Max.	Unit
I _{FT}	Input Threshold Current	All	$V_O = 0.6 \text{ V}, V_E = 2.0 \text{ V}, I_{OL} = 13 \text{ mA}$		3	5	mA
I _{OH}	HIGH Level Output Current	All	$V_O = 5.5 \text{ V}, I_F = 250 \mu\text{A}, \ V_E = 2.0 V$			100	μΑ
V _{OL}	LOW Level Output Voltage	All	$I_F = 5 \text{ mA}, V_E = 2.0 \text{ V},$ $I_{OL} = 13 \text{ mA}$		0.4	0.6	٧

Electrical Characteristics (Continued)

Switching Characteristics ($V_{CC} = 5 \text{ V}$, $I_F = 7.5 \text{ mA}$, $T_A = -40 ^{\circ}\text{C}$ to $+85 ^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Device	Test Conditions	Min.	Тур.	Max.	Unit
t _{PHL}	Propagation Delay	All	$R_L = 350 \Omega$, $C_L = 15 pF$, $T_A = 25^{\circ}C^{(5)}$ (Fig. 14)	25	40	75	- ns
PHL	Time to Logic LOW	7 til	$R_L = 350 \ \Omega, \ C_L = 15 \ pF^{(5)}$ (Fig. 14)			100	113
tou	Propagation Delay	All	$R_L = 350 \Omega$, $C_L = 15 pF$ $T_A = 25^{\circ}C^{(6)}$ (Fig. 14)	20	40	75	- ns
^t PLH	Time to Logic HIGH	7 til	$R_L = 350 \ \Omega, \ C_L = 15 \ pF^{(6)}$ (Fig. 14)			100	113
t _{PHL} -t _{PLH}	Pulse Width Distortion	All	$R_L = 350 \Omega, C_L = 15 pF$ (Fig. 14)		1	35	ns
t _R	Output Rise Time (10% to 90%)	All	$R_L = 350 \Omega, C_L = 15 pF^{(7)}$ (Fig. 14)		30		ns
t _F	Output Fall Time (90% to 10%)	All	$R_L = 350 \Omega, C_L = 15 pF^{(8)}$ (Fig. 14)		10		ns
t _{EHL}	Enable Propagation Delay Time to Output LOW Level	Single Channel	$V_{EH} = 3.5 \text{ V}, R_L = 350 \Omega,$ $C_L = 15 \text{ pF}^{(9)} \text{ (Fig. 15)}$		15		ns
t _{ELH}	Enable Propagation Delay Time to Output HIGH Level	Single Channel	$V_{EH} = 3.5 \text{ V}, R_L = 350 \Omega,$ $C_L = 15 \text{ pF}^{(10)} \text{ (Fig. 15)}$		15		ns
		6N137M, HCPL2630M	$I_F = 0 \text{ mA}, V_{CM} = 50 V_{PEAK}, R_L = 350 \Omega, T_A = 25^{\circ}C^{(11)}$		10,000		
CM _H	Common Mode Transient Immunity	HCPL2601M, HCPL2631M	(Fig. 16)	5000	10,000		V/µs
	at Logic High	HCPL2611M	$ \begin{aligned} & I_{\text{F}} = 0 \text{ mA, V}_{\text{CM}} = 400 \text{ V}_{\text{PEAK}}, \\ & R_{\text{L}} = 350 \ \Omega, T_{\text{A}} = 25^{\circ}\text{C}^{(11)} \\ & (\text{Fig. 16}) \end{aligned} $	10,000	15,000		
		6N137M, HCPL2630M	$V_{CM} = 50 V_{PEAK}$		10,000		
CM _L	Common Mode Transient Immunity	HCPL2601M, HCPL2631M	R _L = 350 Ω , T _A = 25°C ⁽¹¹⁾ (Fig. 16)	5000	10,000		V/µs
	at Logic Low	HCPL2611M	$V_{CM} = 400 V_{PEAK},$ $R_L = 350 \Omega, T_A = 25^{\circ}C^{(11)}$ (Fig. 16)	10,000	15,000		

Notes:

- 5. t_{PHL} Propagation delay is measured from the 3.75 mA level on the LOW to HIGH transition of the input current pulse to the 1.5 V level on the HIGH to LOW transition of the output voltage pulse.
- 6. t_{PLH} Propagation delay is measured from the 3.75 mA level on the HIGH to LOW transition of the input current pulse to the 1.5 V level on the LOW to HIGH transition of the output voltage pulse.
- 7. t_R Rise time is measured from the 90% to the 10% levels on the LOW to HIGH transition of the output pulse.
- 8. t_F Fall time is measured from the 10% to the 90% levels on the HIGH to LOW transition of the output pulse.
- 9. t_{EHL} Enable input propagation delay is measured from the 1.5 V level on the LOW to HIGH transition of the input voltage pulse to the 1.5 V level on the HIGH to LOW transition of the output voltage pulse.
- 10. t_{ELH} Enable input propagation delay is measured from the 1.5 V level on the HIGH to LOW transition of the input voltage pulse to the 1.5 V level on the LOW to HIGH transition of the output voltage pulse.
- 11. Common mode transient immunity in logic high level is the maximum tolerable (positive) dV_{cm}/dt on the leading edge of the common mode pulse signal, V_{CM} , to assure that the output will remain in a logic high state (i.e., $V_O > 2.0 \text{ V}$). Common mode transient immunity in logic low level is the maximum tolerable (negative) dV_{cm}/dt on the trailing edge of the common mode pulse signal, V_{CM} , to assure that the output will remain in a logic low state (i.e., $V_O < 0.8 \text{ V}$).

Electrical Characteristics (Continued)

Isolation Characteristics (T_A =25°C unless otherwise specified.)

Symbol	Parameter	Device	Test Conditions	Min.	Тур.	Max.	Unit
V _{ISO}	Withstand Insulation Test Voltage	All	Relative Humidity \leq 50%, $I_{I-O} \leq$ 10 μ A, $t=1$ min, $f=50$ Hz ⁽¹²⁾⁽¹³⁾	5,000			VAC _{RMS}
R _{I-O}	Resistance (Input to Output)	All	V _{I-O} = 500 V _{DC} ⁽¹²⁾		10 ¹¹		Ω
C _{I-O}	Capacitance (Input to Output)	All	$f = 1 \text{ MHz}, V_{I-O} = 0 V_{DC}^{(12)}$		1		pF
I _{I-O}	Input-Output Insulation Leakage Current	All	Relative Humidity \leq 45%, V _{I-I} = 3000 V _{DC} , t = 5 sec ⁽¹²⁾			1.0	μA

Notes:

- 12. Device is considered a two terminal device: pins 1, 2, 3 and 4 are shorted together and pins 5, 6, 7 and 8 are shorted together.
- 13. 5000 VAC $_{RMS}$ for 1 minute duration is equivalent to 6000 VAC $_{RMS}$ for 1 second duration.

Typical Performance Curves

For Single-Channel Devices: 6N137M, HCPL2601M, and HCPL2611M

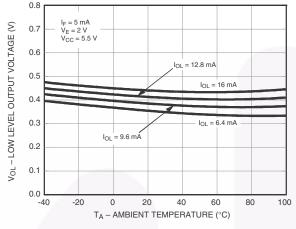


Figure 3. Low Level Output Voltage vs. Ambient Temperature

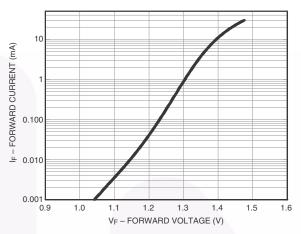


Figure 4. Input Diode Forward Voltage vs. Forward Current

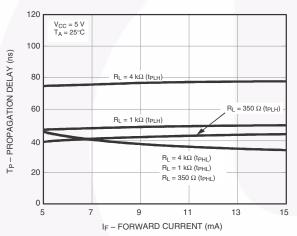


Figure 5. Switching Time vs. Forward Current

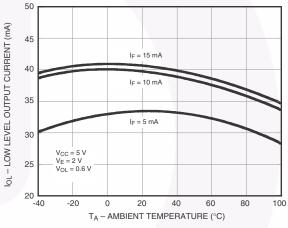


Figure 6. Low Level Output vs. Ambient Temperature

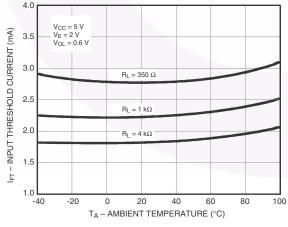


Figure 7. Input Threshold Current vs. Ambient Temperature

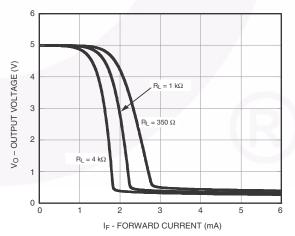


Figure 8. Output Voltage vs. Input Forward Current

Typical Performance Curves (Continued)

For Single-Channel Devices: 6N137M, HCPL2601M, HCPL2611M

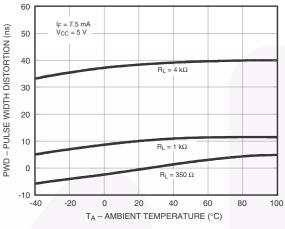


Figure 9. Pulse Width Distortion vs. Temperature

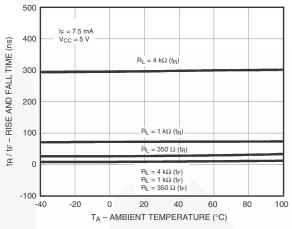


Figure 10. Rise and Fall Time vs. Temperature

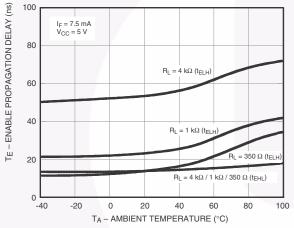


Figure 11. Enable Propagation Delay vs. Temperature

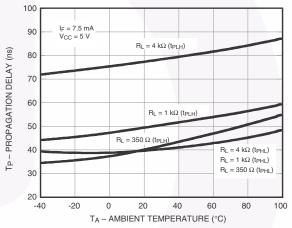


Figure 12. Switching Time vs. Temperature

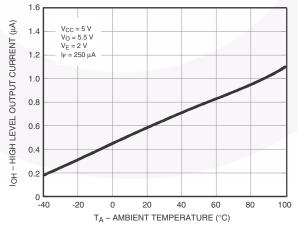
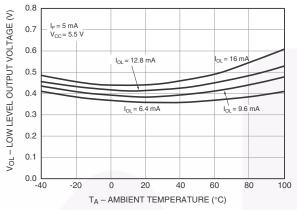
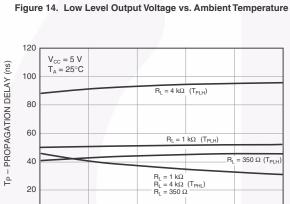


Figure 13. High Level Output Current vs. Temperature

Typical Performance Curves (Continued)

For Dual-Channel Devices: HCPL2630M and HCPL2631M





 $\label{eq:if-port} I_F - \text{FORWARD CURRENT (mA)}$ Figure 16. Switching Time vs. Forward Current

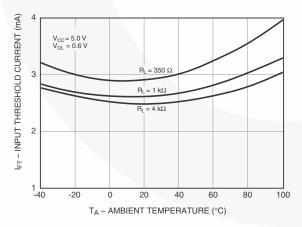


Figure 18. Input Threshold Current vs. Ambient Temperature

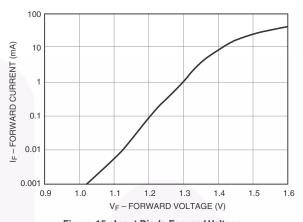


Figure 15. Input Diode Forward Voltage vs. Forward Current

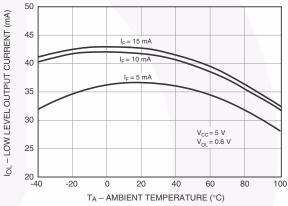


Figure 17. Low Level Output Current vs. Ambient Temperature

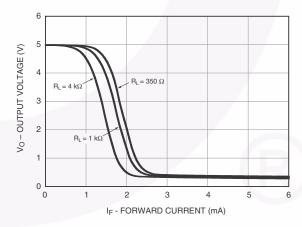


Figure 19. Output Voltage vs. Input Forward Current

0 5

Typical Performance Curves (Continued)

For Dual-Channel Devices: HCPL2630M and HCPL2631M

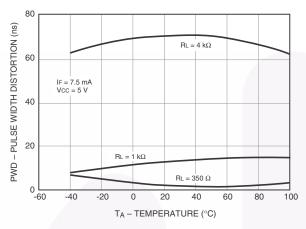


Figure 20. Pulse Width Distortion vs. Temperature

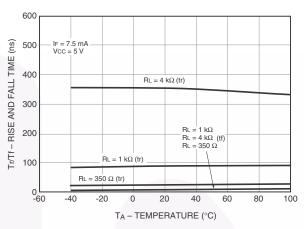


Figure 21. Rise and Fall Time vs. Temperature

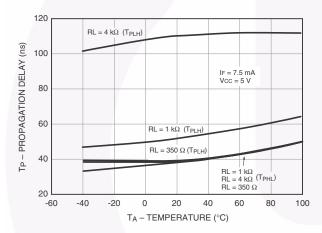


Figure 22. Switching Time vs. Temperature

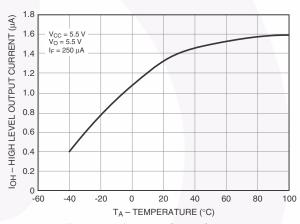


Figure 23. High Level Output Current vs.Temperature

Test Circuits

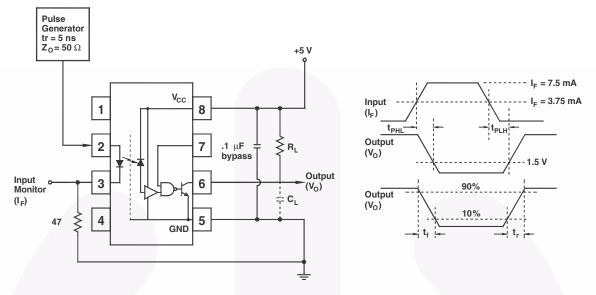


Figure 24. Test Circuit and Waveforms for t_{PLH} , t_{PHL} , t_{r} and t_{f}

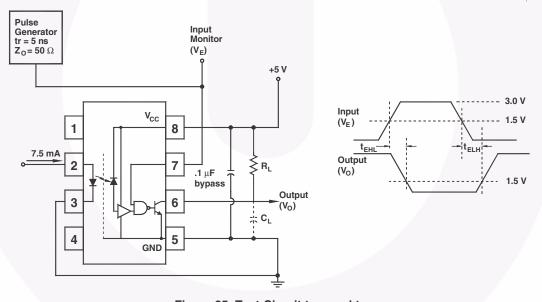


Figure 25. Test Circuit t_{EHL} and t_{ELH}

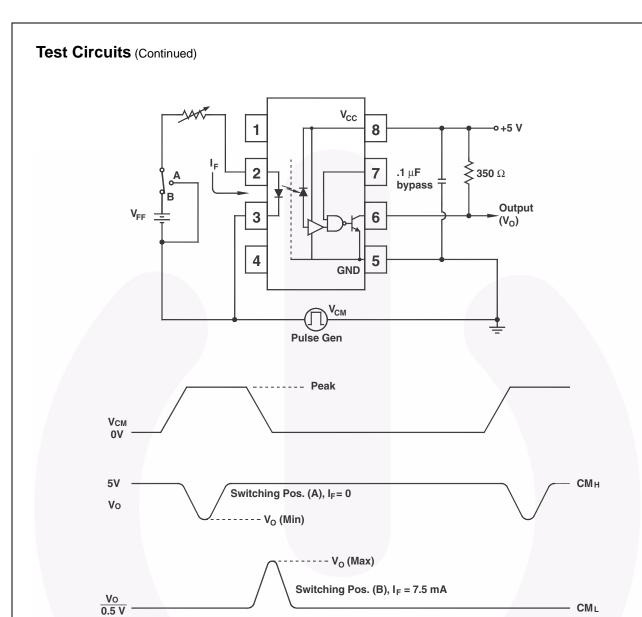
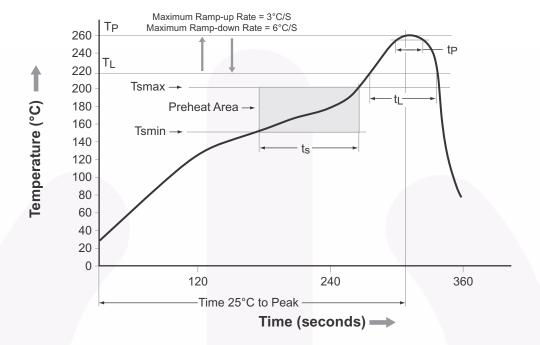


Figure 26. Test Circuit Common Mode Transient Immunity

CML

Reflow Profile



Profile Freature	Pb-Free Assembly Profile
Temperature Min. (Tsmin)	150°C
Temperature Max. (Tsmax)	200°C
Time (t _S) from (Tsmin to Tsmax)	60 to 120 s
Ramp-up Rate (t _L to t _P)	3°C/second maximum
Liquidous Temperature (T _L)	217°C
Time (t _L) Maintained Above (T _L)	60 to 150 s
Peak Body Package Temperature	260°C +0°C / -5°C
Time (t _P) within 5°C of 260°C	30 s
Ramp-down Rate (T _P to T _L)	6°C/s maximum
Time 25°C to Peak Temperature	8 minutes maximum

Figure 27. Reflow Profile

Ordering Information

Part Number	Package	Packing Method
6N137M	DIP 8-Pin	Tube (50 units per tube)
6N137SM	SMT 8-Pin (Lead Bend)	Tube (50 units per tube)
6N137SDM	SMT 8-Pin (Lead Bend)	Tape and Reel (1,000 units per reel)
6N137VM	DIP 8-Pin, DIN EN/IEC 60747-5-5 Option	Tube (50 units per tube)
6N137SVM	SMT 8-Pin (Lead Bend), DIN EN/IEC 60747-5-5 Option	Tube (50 units per tube)
6N137SDVM	SMT 8-Pin (Lead Bend), DIN EN/IEC 60747-5-5 Option	Tape and Reel (1,000 units per reel)
6N137TVM	DIP 8-Pin, 0.4" Lead Spacing, DIN EN/IEC 60747-5-5 Option	Tube (50 units per tube)
6N137TSVM	SMT 8-Pin, 0.4" Lead Spacing, DIN EN/IEC 60747-5-5 Option	Tube (50 units per tube)
6N137TSR2VM	SMT 8-Pin, 0.4" Lead Spacing, DIN EN/IEC 60747-5-5 Option	Tape and Reel (1,000 units per reel)

Note:

The product orderable part number system listed in this table also applies to the HCPL2601M, HCPL2611M, HCPL2630M and HCPL2631M product families.

Marking Information

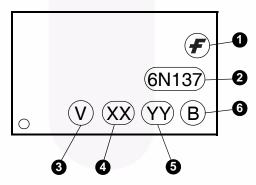
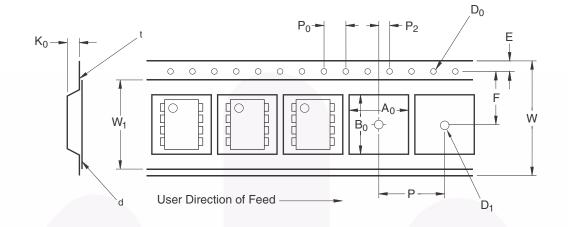


Figure 28. Top Mark

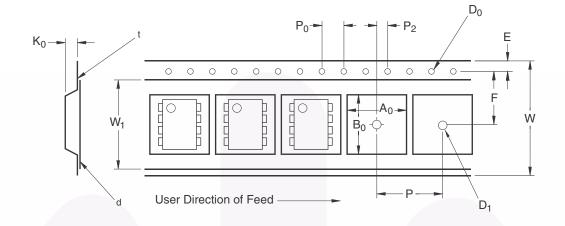
Defini	Definitions			
1	Fairchild Logo			
2	Device Number			
3	DIN EN/IEC60747-5-5 Option (only appears on component ordered with this option)			
4	Two Digit Year Code, e.g., '16'			
5	Two Digit Work Week Ranging from '01' to '53'			
6	Assembly Package Code			

Carrier Tape Specifications (Option SD)

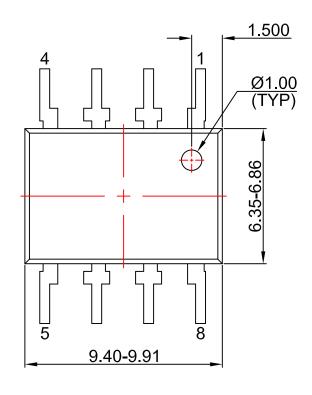


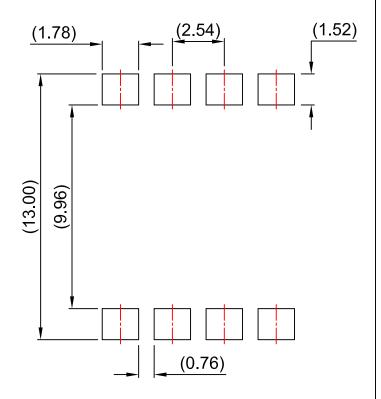
Symbol	Description	Dimension in mm
W	Tape Width	16.0 ± 0.3
t	Tape Thickness	0.30 ± 0.05
P ₀	Sprocket Hole Pitch	4.0 ± 0.1
D ₀	Sprocket Hole Diameter	1.55 ± 0.05
Е	Sprocket Hole Location	1.75 ± 0.10
F	Pocket Location	7.5 ± 0.1
P ₂		2.0 ± 0.1
Р	Pocket Pitch	12.0 ± 0.1
A ₀	Pocket Dimensions	10.30 ±0.20
B ₀		10.30 ±0.20
K ₀		4.90 ±0.20
W ₁	Cover Tape Width	13.2 ± 0.2
d	Cover Tape Thickness	0.1 Maximum
	Maximum Component Rotation or Tilt	10°
R	Minimum Bending Radius	30

Carrier Tape Specifications (Option TSR2)

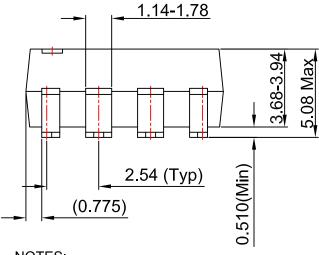


Symbol	Description	Dimension in mm
W	Tape Width	24.0 ± 0.3
t	Tape Thickness	0.40 ± 0.1
P ₀	Sprocket Hole Pitch	4.0 ± 0.1
D ₀	Sprocket Hole Diameter	1.55 ± 0.05
Е	Sprocket Hole Location	1.75 ± 0.10
F	Pocket Location	11.5 ± 0.1
P ₂		2.0 ± 0.1
Р	Pocket Pitch	16.0 ± 0.1
A ₀	Pocket Dimensions	12.80 ± 0.1
B ₀		10.35 ± 0.1
K ₀		5.7 ±0.1
W ₁	Cover Tape Width	21.0 ± 0.1
d	Cover Tape Thickness	0.1 Maximum
	Maximum Component Rotation or Tilt	10°
R	Minimum Bending Radius	30



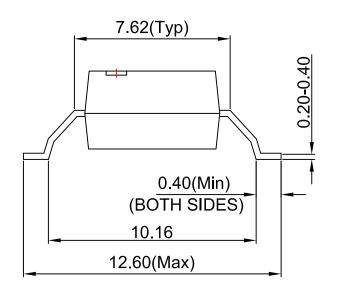




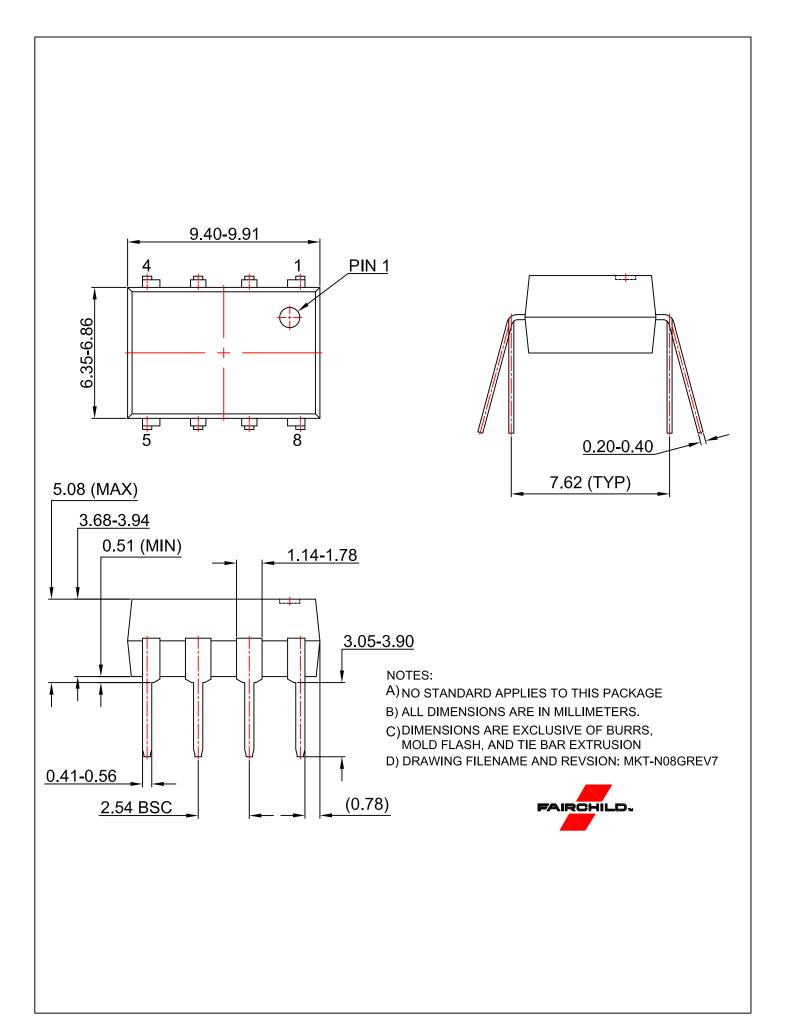


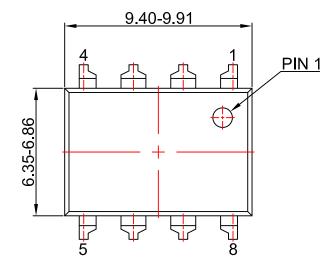


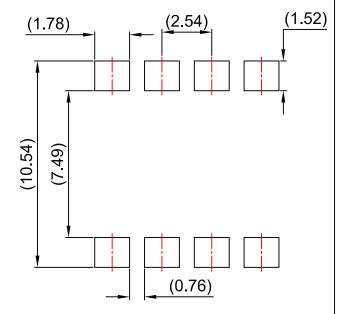
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- D) DWG FILENAME AND REVISION: MKT-N08Lrev2.

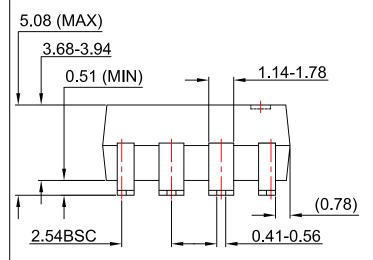




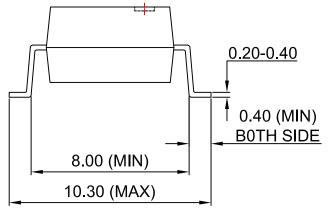








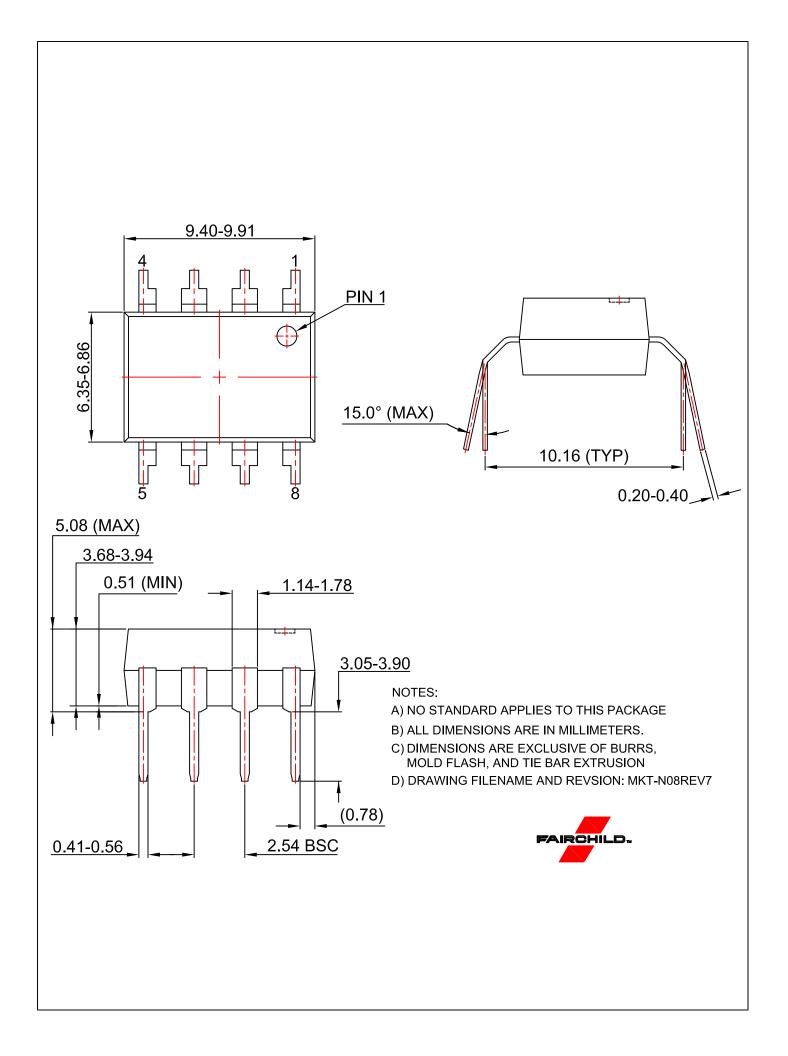




NOTES:

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